The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Currently Amended) An electronic circuit device comprising:
- a first light source;
- a second light source;
- a first substrate;
- a first optical shutter provided over said first substrate;
- a second substrate:
- a second optical shutter provided over said second substrate <u>and under said first</u> substrate;
 - a third substrate:
- a first optical sensor provided over said third substrate <u>and under said second</u> <u>substrate</u>,
- a second optical sensor provided over said third substrate <u>and under said second</u> substrate;

wherein a first light emitted from said first light source is inputted into said first optical shutter, and transmission and non-transmission of said first light are controlled by said first optical shutter, and

wherein in a case where said first optical shutter transmits said first light, the transmitted first light is inputted into said first optical sensor to convert said first light into a first electric signal by a first electronic circuit provided over said third substrate and under said second substrate,

wherein a second light emitted from said second light source is transmitted through said first substrate and is inputted into said second optical shutter, and

transmission and non-transmission of said second light are controlled by said second optical shutter, and

wherein in a case where said second optical shutter transmits said second light, the transmitted second light is inputted into said second optical sensor to convert said second light into a second electric signal by a second electronic circuit provided over said third substrate and under said second substrate.

- (Original) A device according to claim 1, wherein said electronic circuit 2. comprises a thin film transistor.
- (Original) A device according to claim 1, wherein said electronic circuit comprises a thin film transistor and a single crystal IC (Integrated Circuit) chip.
- 4. (Previously Presented) A device according to claim 1, wherein at least one of said first optical sensor and said second optical sensor is an amorphous silicon photodiode, or an amorphous silicon phototransistor.
- 5. (Previously Presented) A device according to claim 1, wherein at least one of said first optical sensor and said second optical sensor is a polysilicon (p-Si) photodiode, or a polysilicon phototransistor.
- 6. (Previously Presented) A device according to claim 1, wherein at least one of said first optical sensor and said second optical sensor is a single crystal silicon photodiode, or a single crystal silicon phototransistor.
- 7. (Previously Presented) A device according to claim 1, wherein at least one of said first optical shutter and said second optical shutter comprises a liquid crystal which is sandwiched between two sheets of transparent substrates.

- 8. (Canceled)
- 9. (Currently Amended) An electronic circuit device comprising:
- a first light source;
- a second light source;
- a first substrate;
- a first optical shutter provided over said first substrate;
- a second optical shutter provided over said first substrate;
- a second substrate;
- a first optical sensor provided over said second substrate <u>and under said first</u> <u>substrate</u>;
 - a third substrate;
- a second optical sensor provided over said third substrate <u>and under said second</u> <u>substrate</u>,

wherein a first light emitted from said first light source is inputted into said first optical shutter, and transmission and non-transmission of said first light are controlled by said first optical shutter,

wherein in a case where said first optical shutter transmits said first light, the transmitted first light is inputted into said first optical sensor to convert said first light into a first electric signal by a first electronic circuit provided over said second substrate and under said first substrate,

wherein a second light emitted from said second light source is inputted into said second optical shutter, and transmission and non-transmission of said second light are controlled by said second optical shutter, and

wherein in a case where said second optical shutter transmits said second light, the transmitted second light is inputted into said second optical sensor to convert said second light into a second electric signal by a second electronic circuit provided over said third substrate and under said second substrate.

- 10. (Original) A device according to claim 9, wherein said electronic circuit comprises a thin film transistor.
- 11. (Original) A device according to claim 9, wherein said electronic circuit comprises a thin film transistor and a single crystal IC (Integrated Circuit) chip.
- 12. (Previously Presented) A device according to claim 9, wherein at least one of said first optical sensor and said second optical sensor is an amorphous silicon photodiode, or an amorphous silicon phototransistor.
- 13. (Previously Presented) A device according to claim 9, wherein at least one of said first optical sensor and said second optical sensor is a polysilicon (p-Si) photodiode, or a polysilicon phototransistor.
- 14. (Previously Presented) A device according to claim 9, wherein at least one of said first optical sensor and said second optical sensor is a single crystal silicon photodiode, or a single crystal silicon phototransistor.
- 15. (Previously Presented) A device according to claim 9, wherein at least one of said first optical shutter and said second optical shutter comprises a liquid crystal which is sandwiched between two sheets of transparent substrates.
 - 16. (Canceled)
 - 17. (Currently Amended) An electronic circuit device comprising:

- a first light source;
- a second light source;
- a first substrate;
- a first optical shutter provided over said first substrate;
- a second substrate;
- a first optical sensor provided over said second substrate <u>and under said first</u> substrate;
- a second optical shutter provided over said second substrate <u>and under said first</u> <u>substrate</u>;
 - a third substrate; and
- a second optical sensor provided over said third substrate <u>and under said second</u> <u>substrate</u>,

wherein a first light emitted from said first light source is inputted into said first optical shutter, and transmission and non-transmission of said first light are controlled by said first optical shutter,

wherein in a case where said first optical shutter transmits said first light, the transmitted first light is inputted into said first optical sensor to convert said first light into a first electric signal by a first electronic circuit provided over said second substrate and under said first substrate,

wherein a second light emitted from said second light source is transmitted through said first substrate and inputted into said second optical shutter, and transmission and non-transmission of said second light are controlled by said second optical shutter,

wherein in a case where said second optical shutter transmits said second light, the transmitted second light is inputted into said second optical sensor to convert said second light into a second electric signal by a second electronic circuit provided over said third substrate and under said second substrate.

- 18. (Original) A device according to claim 17, wherein said electronic circuit comprises a thin film transistor.
- 19 (Original) A device according to claim 17, wherein said electronic circuit comprises a thin film transistor and a single crystal IC (Integrated Circuit) chip.
- 20. (Previously Presented) A device according to claim 17, wherein at least one of said first optical sensor and said second optical sensor is an amorphous silicon photodiode, or an amorphous silicon phototransistor.
- 21. (Previously Presented) A device according to claim 17, wherein at least one of said first optical sensor and said second optical sensor is a polysilicon (p-Si) photodiode, or a polysilicon phototransistor.
- 22. (Previously Presented) A device according to claim 17, wherein at least one of said first optical sensor and said second optical sensor is a single crystal silicon photodiode, or a single crystal silicon phototransistor.
- 23. (Previously Presented) A device according to claim 17, wherein at least one of said first optical shutter and said second optical shutter comprises a liquid crystal which is sandwiched between two sheets of transparent substrates.
 - 24. (Canceled)
 - 25. (Currently Amended) An electronic circuit device comprising:
 - a first light source;
 - a second light source;
 - a first substrate;

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- a first optical shutter provided over said first substrate;
- a second substrate;
- a first optical sensor provided over said second substrate <u>and under said first</u> <u>substrate</u>;

a second optical shutter provided over said second substrate <u>and under said first</u> <u>substrate</u>,

a second optical sensor provided over said first substrate;

wherein a first light emitted from said first light source is inputted into said first optical shutter, and transmission and non-transmission of said first light are controlled by said first optical shutter,

wherein in a case where said first optical shutter transmits said first light, the transmitted first light is inputted into said first optical sensor to convert said first light into a first electric signal by a first electronic circuit provided over said second substrate and under said first substrate,

wherein a second light emitted from said second light source is transmitted through said second substrate and is inputted into said second optical shutter, and transmission and non-transmission of said second light are controlled by said second optical shutter, and

wherein in a case where said second optical shutter transmits said second light, the transmitted second light is inputted into said second optical sensor to convert said second light into a second electric signal by a second electronic circuit provided over said first substrate.

- 26. (Original) A device according to claim 25, wherein said electronic circuit comprises a thin film transistor.
- 27. (Original) A device according to claim 25, wherein said electronic circuit comprises a thin film transistor and a single crystal IC (Integrated Circuit) chip.

- 28. (Previously Presented) A device according to claim 25, wherein at least one of said first optical sensor and said second optical sensor is an amorphous silicon photodiode, or an amorphous silicon phototransistor.
- 29. (Previously Presented) A device according to claim 25, wherein at least one of said first optical sensor and said second optical sensor is a polysilicon (p-Si) photodiode, or a polysilicon phototransistor.
- 30. (Previously Presented) A device according to claim 25, wherein at least one of said first optical sensor and said second optical sensor is a single crystal silicon photodiode, or a single crystal silicon phototransistor.
- 31. (Previously Presented) A device according to claim 25, wherein at least one of said first optical shutter and said second optical shutter comprises a liquid crystal which is sandwiched between two sheets of transparent substrates.
 - 32. (Canceled)
 - 33. (Currently Amended) An electronic circuit device comprising:
 - a first light source;
 - a second light source;
 - a first substrate;
 - a first optical shutter provided over said first substrate;
 - a second substrate:
- a second optical shutter provided over said second substrate and under said first substrate;
 - a third substrate;

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a first optical sensor provided over said third substrate <u>and under said second</u> substrate; and

a second optical sensor provided over said first substrate;

wherein a first light emitted from said first light source is inputted into said first optical shutter, and transmission and non-transmission of said first light are controlled by said first optical shutter,

wherein in a case wherein said first optical shutter transmits said first light, the transmitted first light is inputted into said first optical sensor to convert said first light into a first electric signal by a first electronic circuit provided over said third substrate and under said second substrate,

wherein a second light emitted from said second light source is transmitted though said third substrate and inputted into said second optical shutter, and transmission and non-transmission of said second light are controlled by said second optical shutter, and

wherein in a case where said second optical shutter transmits said second light, the transmitted second light is inputted into said second optical sensor to convert said second light into a second electric signal by a second electronic circuit provided over said first substrate.

- 34. (Original) A device according to claim 33, wherein said electronic circuit comprises a thin film transistor.
- 35. (Original) A device according to claim 33, wherein said electronic circuit comprises a thin film transistor and a single crystal IC (Integrated Circuit) chip.
- 36. (Previously Presented) A device according to claim 33, wherein at least one of said first optical sensor and said second optical sensor is an amorphous silicon photodiode, or an amorphous silicon phototransistor.

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37. (Previously Presented) A device according to claim 33, wherein at least one of said first optical sensor and said second optical sensor is a polysilicon (p-Si) photodiode, or a polysilicon phototransistor.

38. (Previously Presented) A device according to claim 33, wherein at least one of said first optical sensor and said second optical sensor is a single crystal silicon photodiode, or a single crystal silicon phototransistor.

39. (Previously Presented) A device according to claim 33, wherein at least one of said first optical shutter and said second optical shutter comprises a liquid crystal which is sandwiched between two sheets of transparent substrates.

40.-42. (Canceled)